AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions of claims in the application:

Listing of Claims:

- 1. (Currently Amended) A system for rendering an image of an object having a curved surface, comprising:
- a determiner that determines M number of attributes relating to rendering the image, M being an integer, wherein the determiner determines at least one of a diffuse lighting component, and at least one of an ambient lighting component, a specular lighting component, an intensity, a pole vector, an equator vector, a latitude, a longitude, a color and a texture;
- a first processor that pre-computes N number of attributes relating to rendering the image, N being an integer less than or equal to M, and the N number of attributes being pre-computable and stored in at least one lookup table, and where the first processor pre-computes for one or more pixels, characterized by an x attribute, a y attribute and a z attribute, the N number of attributes including at least one of an ambient lighting component, a diffuse lighting component, a specular lighting component, a pole vector, an equator vector and a pole crossing equator vector; and
- a second processor that computes the M number of attributes, the second processor employs the pre-computed N number of attributes from the at least one lookup table to compute the M number of attributes.
- 2. (Original) The system of claim 1, the N number of attributes having characteristics associated with the symmetrical nature of objects having a curved surface.
- 3. (Original) The system of claim 1, the M number of attributes including one or more light sources.
- 4. (Original) The system of claim 1, the M number of attributes including one or more viewing positions.

5-6. (Canceled)

- 7. (Previously presented) The system of claim 1, wherein the first processor pre-computes an edge buffer for one or more objects.
- 8. (Previously presented) The system of claim 1, the object is a lit sphere.
- 9. (Previously presented) The system of claim 8, the object is a textured sphere.
- 10. (Previously presented) The system of claim 1, the object is bump-mapped.
- 11. (Currently Amended) A method for rendering an image of an object having a curved surface, comprising:

determining an M number of attributes relating to rendering the image, M being an integer, wherein the M number of attributes comprises, computing for one or more pixels, and at least one of a diffuse lighting component, and at least one of an ambient lighting component, a specular lighting component, an intensity, a pole vector, an equator vector, a latitude, a longitude, a color and a texture;

pre-computing an N number of attributes relating to rendering the image, N being an integer less than or equal to M, where the N number of attributes are stored in at least one lookup table, and where the N number of attributes comprises, computing for one or more pixels, characterized by an x attribute, a y attribute and a z attribute, the N number of attributes including at least one of an ambient lighting component, a diffuse lighting component, a specular lighting component, a pole vector, an equator vector and a pole crossing equator vector;

employing the pre-computed N number of attributes from the at least one lookup table to compute the M number of attributes computing the M number of attributes; and

rendering an image based, at least in part, on the N pre-computed attributes and the M computed attributes.

12-13. (Canceled)

14. (Currently Amended) The method of claim <u>11</u> 13, wherein pre-computing the N number of attributes relating to rendering the image further comprises:

pre-computing an edge buffer for one or more spheres.

- 15. (Original) The method of claim 11, the N number of pixel attributes having characteristics associated with the symmetrical nature of objects having a curved surface.
- 16. (Original) The method of claim 11, the M number of attributes including one or more light sources.
- 17. (Original) The method of claim 11, the M number of attributes including one or more viewing positions.
- 18. (Original) The method of claim 11, wherein the object is a lit sphere.
- 19. (Original) The method of claim 18, wherein the sphere is textured.
- 20. (Original) The method of claim 11, wherein the object is bump-mapped.
- 21. (Original) A computer-readable medium having computer-executable instructions for performing the method of claim 11.
- 22. (Currently Amended) A system that facilitates rendering an image of an object having a curved surface, comprising:
- a determination component that determines a plurality of attributes related to rendering the image, wherein the determination component determines <u>at least one of</u> a diffuse lighting component, and <u>at least one of</u> an ambient lighting component, a specular lighting component, an intensity, a pole vector, an equator vector, a latitude, a longitude, a color and a texture;
- a pre-computation component that pre-computes a subset of the attributes related to rendering the image and stores the pre-computed subset of attributes in at least one lookup table,

wherein the pre-computation component computes for one or more pixels, characterized by an x attribute, a y attribute and a z attribute, the pre-computed subset of attributes including at least one of: an ambient lighting component, a diffuse lighting component, a specular lighting component, a pole vector, an equator vector and a pole crossing equator vector; and

a computation component that computes the plurality of attributes, the computation component employs the pre-computed subset of attributes from the at least one lookup table to compute the plurality of attributes.

- 23. (Previously presented) The system of claim 22, the subset of attributes have characteristics associated with a symmetrical nature of objects having a curved surface.
- 24. (Previously presented) The system of claim 22, the plurality of attributes include one or more light sources.
- 25. (Previously presented) The system of claim 22, the plurality of attributes include one or more viewing positions.
- 26-27. (Canceled)
- 28. (Previously presented) The system of claim 1, the pre-computation component computes an edge buffer for one or more objects.
- 29. (Currently Amended) A system that facilitates rendering an image of an object having a curved surface, comprising:

means for determining a plurality of attributes related to rendering the image, wherein the determination means determines at least one of a diffuse lighting component, and at least one of an ambient lighting component, a specular lighting component, an intensity, a pole vector, an equator vector, a latitude, a longitude, a color and a texture;

means for pre-computing a subset of the attributes related to rendering the image <u>and</u> storing the pre-computed subset of attributes in at least one lookup table, where the pre-computed subset of attributes comprises, computing for one or more pixels, characterized by an x

attribute, a y attribute and a z attribute, the pre-computed subset of attributes including at least one of an ambient lighting component, a diffuse lighting component, a specular lighting component, a pole vector, an equator vector and a pole crossing equator vector; and means for employing the pre-computed subset of attributes from the at least one lookup table to compute the plurality of attributes computing the plurality of attributes.